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APPLICATION ELEMENTS

1. ☒ Fee Transmittal Form
☐ Check Enclosed
2. ☒ Specification
(preferred arrangement set forth below)
 - ☒ Descriptive Title of the Invention
 - ☒ Cross Reference(s) to Related Case(s)
 - ☒ Statement Regarding Fed sponsored R & D
 - ☒ Background of the Invention
 - ☒ Brief Summary of the Invention
 - ☒ Brief Description of the Drawing(s)
 - ☒ Detailed Description
 - ☒ Claim or Claims
 - ☒ Abstract of the Disclosure
3. ☒ Drawing(s) (when necessary per 35 USC 113)
4. Oath or Declaration
 - a. ☒ New Declaration
☐ Executed
 - b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
 - i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
5. ☐ Incorporation by Reference (useable if Box 4b is
checked). The entire disclosure of the prior application,
from which a copy of the oath or declaration is supplied
under Box 4b, is considered as being part of the disclosure
of the accompanying application and is hereby incorporated
by reference therein.

ACCOMPANYING APPLICATION PARTS

6. ☐ Assignment & Assignment Recordation Cover Sheet
7. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
8. ☐ Information Disclosure Statement & PTO-1449
☐ Copies of IDS Citation(s)
9. ☐ Preliminary Amendment
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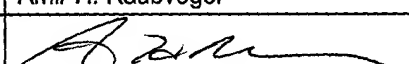
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17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: ____/____

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Tracking Multiple Exchange Rates

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BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates generally to software for tracking financial transactions, and more particularly to a system, method, and computer program product for tracking multiple exchange rates for various transactions occurring over a period of time.

2. Description of Background Art

Software products for tracking financial transactions are generally capable of converting from one currency to another using a stored exchange rate. When exchange rates change, the stored value can be updated. However, transactions affected by the change are often not adjusted correctly, since the most current exchange rate may not be appropriate for calculations involving past transactions.

Conventional financial software is able to store exchange rates for a number of currencies. One currency is designated a "home currency," and exchange rates for all other currencies are expressed in terms of multipliers with

respect to the home currency. Typically, the home currency corresponds to the country in which the user resides or primarily conducts business. Thus, if the home currency is the Canadian dollar, exchange rates for other currencies (such as the British pound, the U.S. dollar, and the like) would be expressed in terms
5 relative to the Canadian dollar.

In conventional systems, the stored exchange rate for a particular currency is used to calculate equivalent values for any transactions involving that currency. Thus, if an exchange rate of 1.5 is stored for the U.S. dollar with respect to the Canadian dollar, and the home currency is the Canadian dollar,
10 all transactions involving U.S. currency would be multiplied by 1.5 to obtain the equivalent in Canadian funds. If the exchange rate subsequently changes to 1.4, all transactions (past and present) are automatically updated to reflect the new exchange rate.

This approach — updating past transactions using current exchange rates
15 — is adequate for certain types of reports that represent “snapshots” in time, such as a Net Worth report or an Account Balance report. However, inaccuracies may result when such an approach is applied to other types of reports, particularly investment tracking such as Capital Gains and Portfolio Value reports. The above-described conventional technique is unable to easily
20 generate accurate data for such reports, since such a technique lacks the ability to store different exchange rates for different dates, for example when the exchange rate has changed between the buy and sell dates for a security. Thus, such a technique would not be able to track, for example, capital gains/losses involving foreign currencies, in an effective and accurate manner.

25 Furthermore, it is desirable to represent foreign currency transactions in a manner that achieves consistency with accounting treatments for domestic

transactions. As domestic transactions are recorded in the domestic currency, foreign transactions should ideally be recorded in the domestic currency as well. Conversion to domestic currency should take place using the exchange rate in effect at the date of the transaction. In conventional systems, subsequent
5 changes to exchange rates can lead to inaccurate results, because the exchange rate being used for the conversion is no longer equal to the exchange rate in effect on the date of the transaction.

One example of such a situation is the calculation of capital gains. Calculation of capital gains on foreign assets ideally should be performed by
10 multiplying foreign prices by the exchange rates on the date of the transactions. Thus, when a user records a purchase or sale of foreign stocks, the transaction must be converted to the domestic currency using the exchange rate in effect on that day. If, for example, a Canadian user records the purchase and subsequent sale of stock in U.S. currency, correct calculation of capital gains would yield the
15 following results:

Transaction	Foreign Currency	Exchange	Home Currency
Purchase 1 share at	\$30.00 US	1.2	\$36.00 CAD
Sell 1 share at	\$50.00 US	1.5	\$75.00 CAD
Capital gain			\$39.00 CAD

The differing exchange rates for the two transactions occur because the purchase and sale occurred on different dates. However, conventional systems
20 would fail to take into account the historical exchange rate information, and would incorrectly calculate the capital gain as \$30.00 CAD, based on a current exchange rate of 1.5 ($\$50 \times 1.5 - \30×1.5).

Similar inaccuracies can arise in other situations. For example, foreign monetary items (such as accounts payable, accounts receivable, cash, and the like) must be adjusted to reflect the exchange rates in effect at the financial statement date. If historical exchange rate information is not readily available, such items may be inaccurately converted to the home currency using a single exchange rate. Such issues often arise in many other contexts as well.

What is needed is a system, method, and computer program product for tracking multiple exchange rates for each currency, and for storing exchange rate information for each of a number of transactions involving currency conversions. What is further needed is a system, method, and computer program product for storing and maintaining historical exchange rates and applying such rates to transactions occurring on various dates. What is further needed is a user interface for accessing, storing, and maintaining such historical exchange rates for a plurality of currencies. What is further needed is a system, method, and computer program product for generating a financial report including at least two transactions using at least two historical exchange rates.

SUMMARY OF THE INVENTION

In accordance with the present invention, there is provided a system and method for tracking multiple exchange rates for a particular currency, or for a plurality of currencies. Each of the exchange rates represents the value of the currency at a particular time and/or date. Thus, the present invention is able to track exchange rates for individual investment transactions in foreign currencies, based on the transaction dates. This facilitates the generation of transaction reports that accurately display amounts in the home currency.

Capital Gains reports, Portfolio Value reports, and the like can reflect values in the home currency using exchange rate values corresponding to the actual dates of the transactions in question.

5 In accordance with one embodiment, there is also provided a user interface for entering and maintaining historical and time-based exchange rates, as well as a mechanism for obtaining such information in an automated fashion, either from stored data files or from a central resource such as an Internet site.

BRIEF DESCRIPTION OF THE DRAWINGS

10 Fig. 1 is a functional block diagram of an embodiment of the present invention.

Fig. 2 is a diagram of an example of a currency list according to one embodiment of the present invention.

Fig. 3 is a diagram of an example of an Edit Currency screen according to one embodiment of the present invention.

15 Fig. 4 is a diagram of an example of an Exchange Rate History screen according to one embodiment of the present invention.

Fig. 5 is a diagram of an example of a New/Edit Exchange Rate screen according to one embodiment of the present invention.

20 Fig. 6 is a diagram of an example of an Edit Bank Account screen according to one embodiment of the present invention.

Fig. 7 is a diagram of an example of a Foreign Currency Transfer screen according to one embodiment of the present invention.

Fig. 8 is a diagram of an example of an Account List screen according to one embodiment of the present invention.

Fig. 9 is a diagram of an example of a General Register screen according to one embodiment of the present invention.

Fig. 10 is a diagram of an example of an Investment Register screen according to one embodiment of the present invention.

5 Fig. 11 is a diagram of an example of a Buy/ Add Shares screen according to one embodiment of the present invention.

Fig. 12 is a diagram of an example of a Set Up Security screen according to one embodiment of the present invention.

10 Fig. 13 is a diagram of an example of a Security List screen according to one embodiment of the present invention.

Fig. 14 is a diagram of an example of a Capital Gains Report according to one embodiment of the present invention.

Fig. 15 is a diagram of an example of a Customize Capital Gains Report screen according to one embodiment of the present invention.

15 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

For illustrative purposes, the following description of preferred embodiments discusses the invention in terms of a personal accounting software package, such as Quicken® from Intuit Corporation, which is commonly used for tracking financial transactions. As described below, the present invention
20 can be implemented as extended functionality or as an upgrade to such software packages. However, the present invention is not limited to such implementations, and therefore the descriptions provided herein are intended to be illustrative, but not limiting, of the scope of the invention.

The present invention may be implemented, for example, on a conventional personal computer as is known in the art, including a microprocessor such as the Pentium® processor from Intel® Corporation, memory, a storage device such as a hard drive, a display device such as a monitor, and an input device such as a keyboard and/or mouse. The computer may run a conventional operating system such as Microsoft® Windows 98, from Microsoft Corporation, under which the software embodying the present invention may run. Other configurations, hardware architectures, or operating systems may also be used, as will be understood by one skilled in the art.

In the following description of the operation of the invention, the terms "screen", "window", "dialog box", "pane", and the like may be used interchangeably to refer to a visual user interface component for display to the user and/or for accepting input from the user. All such terms should be considered equivalent, with no limitation to be inferred from use of one particular term in the context of the following description and claims.

The present invention improves upon conventional financial transaction software by tracking multiple exchange rates for various transactions occurring over a period of time. To accomplish this, the present invention maintains historical information regarding exchange rates for transactions. In one embodiment, a currency list is maintained, containing periodic (such as daily) exchange rates for each relevant currency. For each account, a currency is designated and the registers for the account are maintained in that currency. An account list may be stored or generated, showing account balances in designated currencies, and a total in the user's home currency. Various reports may also be generated, such as net worth and portfolio value reports, converting foreign currencies using the latest exchange rate available, as re-

trieved from the currency list. Transaction reports may also be generated, showing equivalent home currency values using the stored historical information appropriate for the transaction date. In one embodiment, exchange rates are saved for each individual investment transaction, so that such
5 historical information is readily available.

Referring now to Fig. 1, there is shown a functional block diagram of an embodiment of the present invention. Currency list 101 stores information describing the current exchange rate for various currencies. Exchange rate history 102 stores historical information for exchange rates, including the rate
10 for each relevant currency at various dates (for example, on a daily basis if appropriate). Exchange rates for intermediate dates (for which there is no record in history 102) can be considered equal to the latest available exchange rate preceding the intermediate date, so that a particular exchange rate remains in effect until the date indicated for the next exchange rate. In one embodiment,
15 currency list 101 is generated from history 102, rather than stored separately. Interface to online currency rates 103 is an electronic connection to some source of exchange rate information; interface 103 may be implemented, for example, as a connection via the Internet. In one embodiment, the system includes preloaded historical exchange rate information 102 for some period of time,
20 such as five years.

Transactions 104 is a list of transactions stored, for example, in a database, as is known in the art. For each transaction, information such as date, description, amount, category, and the like, is stored. Users can manipulate transactions 104 via user interface components such as, for example, registers
25 105, which provide input/output capability for interacting with transactions 104 in a manner that is known for personal finance software. User interface (UI) 106

provides a vehicle by which the user can view and change information in system 100, and is implemented in one embodiment by a series of windows and screens, as will be described in more detail below.

In the present invention, transactions 104 and registers 105 are adapted as described below to enable storage, tracking, and manipulation of historical exchange rates associated with particular transactions. In addition, other user interface components are introduced and/or improved over the prior art, in order to provide functionality for implementing the present invention.

Referring now to Fig. 2, there is shown a screen, as displayed by user interface 106, for user access to currency list 101 according to one embodiment of the present invention. Currency list 101 displays the current exchange rate for a number of currencies. In one embodiment, the current exchange rate is obtained by consulting the most recent exchange rate stored in exchange rate history 102.

For each of a number of currencies, currency list 101 displays name 201, symbol 202, rate 203, keyboard shortcut key 204 (for enabling quick selection of the corresponding currency), and an indication 205 of whether the currency is the "home" currency. Buttons 206 allow the user to add, edit, or delete currency information. Use button 207 allows the user to select a particular currency to be used. Home button 208 allows the user to designate a currency as the home currency. Update rates button 209 activates a connection to an external source of exchange rate data and automatically updates the stored rates accordingly. In one embodiment, button 209 includes a drop down menu containing two options: Get Online Currency Rates, and Edit Exchange Rate History (for allowing manual update of the history). Close button 210 closes the window.

The user can add currencies to list 101 as needed, by clicking on the New button. Currency information is edited by selecting a currency and clicking the Edit button. Referring now to Fig. 3, there is shown an Edit Currency screen 300, as displayed by user interface 106, according to one embodiment of the present invention, for use in adding or editing currency and exchange rate information. The user can enter or edit information in name field 301, symbol field 302, currency code field 303, keyboard shortcut letter field 304, and exchange rate fields 305 and 306 (for entering the exchange rate as of the current date, relative to the home currency). In one embodiment, only one of fields 305 and 306 need be filled in by the user, and the other field is automatically filled in with the reciprocal of the entered value. The user clicks OK button 307 to confirm the changes, or Cancel 308 to cancel them. Help button 309 activates a help feature (not shown).

Referring now to Fig. 4, there is shown a screen, as displayed by user interface 106, for editing exchange rate history 102 according to one embodiment. The screen shown provides a user interface to the data stored in history 102 for any selected currency in currency list 101. Buttons 405 allow the user to add new exchange information by adding a row to history 102, or to edit information, delete information, print the table, or close the screen. For any number of dates 401, the screen displays the corresponding exchange rate 402 (shown relative to the home currency) as stored in history 102. Each row 403 in the screen corresponds to a record in history 102, so that any number of records can be maintained. In history 102, separate tables for each currency may be maintained, or in an alternative embodiment all such information may be stored in a single table. In this way, the system of the present invention is able to track historical exchange rate information. System 100 can obtain the exchange rate

for a particular transaction by consulting the appropriate table for the currency being used, and looking up the exchange rate in effect as of the transaction date. As described above, if no rate is available for the date of the transaction, system 100 can use the latest available exchange rate preceding the transaction date, so that a particular exchange rate remains in effect until the date indicated for the next exchange rate. Alternatively, a date range or other time period can be explicitly specified for each exchange rate.

In one embodiment, history 102 is automatically updated using exchange rate information obtained from an external source, such as over the Internet. Such functionality is implemented by periodically contacting the external source and retrieving the relevant information. Such operations may be performed at predetermined times, or in response to manual activation by the user. Records are then added to history 102 to store the retrieved information.

The user can also manually enter information into history 102. Referring now to Fig. 5, there is shown a New/Edit Exchange Rate screen, as displayed by user interface 106 according to one embodiment. This screen is used for adding a new record to history 102, or for editing an existing record. The user enters information in date field 501 and in exchange rate field 502. In one embodiment, screen 500 contains two fields (not shown) for exchange rate, one representing the reciprocal of the other. When the user fills in one of the fields (e.g. for Canadian dollars per U.S. dollar) the other field is automatically filled in with the reciprocal of the entered value (e.g. U.S. dollars per Canadian dollar). OK button 504 confirms the change, and Cancel button 505 cancels it. In an alternative embodiment, the user is able to edit, add, or delete exchange rate information for particular dates directly in the fields shown in Fig. 4.

As is known in the art, software for personal finances typically allows a user to set up one or more accounts corresponding to bank accounts, credit card accounts, investment accounts, and the like. In the present invention, each such account is associated with a particular currency. The user can specify the
5 currency for an account when the account is created, and can modify the selection later. Referring now to Fig. 6, there is shown an Edit Bank Account screen 600, as displayed by user interface 106, for specifying or changing account information, including the account name 601, description 602, and currency 603. In one embodiment, currency field 603 is a pull-down menu that
10 allows the user to select any currency from currency list 101. Once a currency has been selected using screen 600, the system tracks transactions for the account using the designated currency. Summary reports requiring conversion to other currencies can then be generated using the appropriate calculation with historical exchange rates for the designated currency.

15 In one embodiment, the present invention converts currencies when recording a transfer between accounts, using historical exchange rate information appropriate to the date of the transfer. Referring now to Fig. 7, there is shown a Foreign Currency Transfer screen 700, as displayed by user interface 106, for displaying conversion information for such a transfer. In the example
20 shown, an amount 701 in foreign currency is being transferred to an account of a different currency. Converted amount 702 is determined by the system using historical exchange rate information from exchange rate history 102. In one embodiment, the system retrieves the appropriate exchange rate 705 for the date of the transfer, so that correct conversion can take place even if the transfer is
25 being recorded much later than its effective date. The user can also manually

override the information in field 702 by typing a different value, if desired in field 705. OK button 703 confirms the transfer, and Cancel button 704 cancels it.

Referring now to Fig. 8, there is shown an Account List 800, as displayed by user interface 106 according to one embodiment of the present invention.

Account List 800 shows, for each account belonging to the user, a name 801, type 802, description 803, number of transactions 804, balance 805 and cheques column 806 indicating whether the account has cheques to be printed. Balance 805 for each account is shown in the currency for that account. In an alternative embodiment, balance 805 is shown in the user's home currency (converted according to the current exchange rate), or balance 805 may be shown in both the account currency and the home currency. Other fields may also be included, such as the currency code for the account. Balance total 807, representing the total amount for all accounts, is shown in the user's home currency (converted according to the current exchange rate).

Referring now to Fig. 9, there is shown an example of a Register screen 900, as displayed by user interface 106 according to one embodiment of the present invention. As is known in the art, a register is an on-screen display of transactions pertaining to a particular account, as identified by title 909. For each transaction 901 a date 902, reference number 903, descriptive information 904, type 905, amount 906, and balance 907 are shown. The user may view, enter, or edit particulars of transactions, as desired. In one embodiment of the present invention, register 900 is displayed in the currency of the account being shown. In an alternative embodiment, the currency symbol can be displayed at the top of the register screen. In another alternative embodiment, balances 907 (including the ending balance) can optionally be converted to the user's home currency.

Referring now to Fig. 10, there is shown an example of an Investment Register screen 1000, as displayed by user interface 106 according to one embodiment of the present invention. As is known in the art, an Investment Register is an on-screen display of transactions pertaining to investments. For each transaction 1001 a date 1002, descriptive information 1003, price per unit 1004, number of units (e.g. shares) 1006, amount and commission/fee 1007, and cash balance 1008 are shown. In one embodiment, for each transaction involving a conversion from one currency to another, the exchange rate for the currency as of the date of the investment transaction is stored. The exchange rate is retrieved using historical exchange rate information from exchange rate history 102. Thus, even if exchange rates have changed over time, the correct exchange rate for the date of the transaction can be applied when converting currencies. Alternatively, the user may manually enter the exchange rate and/or override retrieved values. When entering a transaction, the user is presented with a dialog box, as shown in Fig. 7, presenting the prevailing exchange rate (obtained from exchange rate history 102) and allowing the user to override it, if desired. The entered rate is stored along with the transaction. If the user overrides the exchange rate listed, and history 102 does not have a rate for the date of the transaction, in one embodiment the system automatically enters a new exchange rate in history 102 for the corresponding date.

The present invention tracks an exchange rate for each foreign currency investment transaction. In one embodiment, the exchange rate is stored along with the other information in the transaction record. In another embodiment, the exchange rate is not stored in the transaction record, but is retrieved from history 102 when needed to perform a calculation or to display transaction

information. Thus, the system is able to maintain a different exchange rate for every transaction, if required.

In an alternative embodiment, if the exchange rate is stored in the transaction record, such information can be updated automatically whenever historical exchange rate information in history 102 is changed. Thus, for example, if an exchange rate for a particular date is changed after the fact, the system can automatically update all transactions affected by the change. This is done by searching the various transaction records for transactions involving the currency and occurring on the date of the change (or soon thereafter), and entering the new exchange rate information in the affected transaction records.

In one embodiment, all accounts employ historical exchange rate information when tracking transactions involving foreign currencies. In another embodiment, only selected accounts employ historical exchange rates, while other accounts use a global exchange rate in a conventional manner. For example, investment accounts may use historical exchange rates, while bank accounts and credit card accounts may use global (non-historical) exchange rates in a conventional manner. In some situations, such a scheme may be advantageous, since the use of a global exchange rate may be simpler and more appropriate for certain types of accounts.

In yet another embodiment, all transactions within a particular investment account are associated with a particular currency.

Referring now to Fig. 11, there is shown a Buy/Add Shares screen 1100, as displayed by user interface 106 according to one embodiment of the present invention. Screen 1100 is an example of a user interface for entering or editing transactions in a foreign currency. Screen 1100 shows the number of units (e.g. shares) 1101, the price per unit 1102, date of the transaction 1103,

commission/fee 1104, and exchange rate 1105. The user can enter or edit any of the information in the various fields. Exchange rate 1105 is retrieved from history 102, if available. The user may override the exchange rate 1105 shown, and if appropriate, the new value may be written into history 102. Thus, in one embodiment historical exchange rate information is added to history 102 whenever a transaction is added for a date that does not already have an exchange rate stored in history 102.

Referring now to Fig. 12, there is shown a Set Up Security screen 1200, as displayed by user interface 106 according to one embodiment of the present invention. Screen 1200 is used to enter and/or edit general information about securities that are tracked in the investment register 1000. In addition to conventional fields, screen 1200 of the present invention includes a currency selection field 1201. In one embodiment, the user can select from a number of currencies using a drop-down menu, as shown. Once the selection has been made, the selected currency is associated with the security, and all transactions involving that security are recorded in the selected currency. In one embodiment, the user can select a currency using a predefined keyboard shortcut.

Referring now to Fig. 13, there is shown a Security List screen 1300, as displayed by user interface 106 according to one embodiment of the present invention. Securities are listed along with descriptive information. A currency 1301 for each security is also listed.

By tracking exchange rate information in the manner described above, the present invention is able to generate accurate reports for transactions involving foreign currencies, such as for example capital gains reports. Investment transactions show all transactions in the home currency (or any

other currency selected by the user). For each transaction, the historical exchange rate in effect as of the transaction date is used to determine the home currency equivalent. In one embodiment, this exchange rate is retrieved from the transaction record where it was stored previously. In another embodiment, the system consults history 102 to obtain the exchange rate for the date of the transaction.

For example, referring now to Fig. 14, there is shown a capital gains report 1400 generated using the present invention. As shown in the example, the present invention is able to generate a report that reflects historical exchange rates and thereby produces accurate gain/loss totals. Report 1400 reflects the following transactions (assuming the user's home currency is the Canadian dollar):

Transaction	Foreign Currency	Exchange	Home Currency
8/1/99: Buy 1 share at	\$30.00 US	1.2	\$36.00 CAD
12/1/99: Sell 1 share at	\$50.00 US	1.5	\$75.00 CAD
Capital gain			\$39.00 CAD

The report shows name 1401 of the security, number of shares 1402, buy date 1403, sell date 1404, sales price 1405, cost basis 1406, and net gain/loss 1407. Sales price 1405 is based on the exchange rate in effect as of sell date 1404. Cost basis 1406 is based on the exchange rate in effect as of buy date 1403. Thus, net gain/loss 1407 is correctly generated using these historical exchange rates.

Purchase and sales prices for the relevant transactions is determined based on stored transaction information. When a number of securities or groups of securities are involved, selected transactions are matched with one

another in accordance with recognized accounting principles, so as to determine which purchases correspond to which sales, for purposes of a report such as a Capital Gains Report.

In one embodiment, the user is able to select a currency for any report, so that all amounts shown in the report are converted to the selected currency. Historical exchange rate information can be used for the conversion, based on the date of each transaction in the report.

Balance reports, such as Net Worth and the like, are generated using exchange rates for a particular date (most commonly the present date). For each relevant amount in the report, the latest exchange rate in relation to the selected date is used. Other reports, including graphical reports, are similarly generated using historical exchange rate information. Such reports include, for example, Investment Performance, Investment Income, Capital Gains, Investment Transaction, and Securities Reports.

In one embodiment, the user is able to select whether historical exchange rate information will be used in generating a report. Referring now to Fig. 15, there is shown a Customize Capital Gains Report screen 1500 as displayed by user interface 106 according to one embodiment of the present invention. Among other customization options, screen 1500 provides field 1501 for selecting a currency for the report, as well as checkbox 1502 for selecting whether a transaction exchange rate (i.e. historical exchange rate) is to be used for the report. If the user checks box 1502, the report is generated as described above, using the appropriate exchange rate on each transaction that is included in the report. If the user elects not to check box 1502, the report is generated in a conventional manner using a single exchange rate.

From the above description, it will be apparent that the invention disclosed herein provides a novel and advantageous system and method of tracking multiple exchange rates for various transactions occurring over a period of time. By tracking historical exchange rates, the present invention is able to generate transaction reports that accurately display amounts in the user's home currency. The foregoing discussion discloses and describes merely exemplary methods and embodiments of the present invention. As will be understood by those familiar with the art, the invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. Accordingly, the disclosure of the present invention is intended to be illustrative, but not limiting, of the scope of the invention, which is set forth in the following claims.

What is Claimed is:

1 1. In a computer-implemented system for managing financial transac-
2 tions, a method for applying an exchange rate to convert a transaction from a
3 first currency to a second currency, comprising:
4 receiving a financial transaction, including a date and a transaction
5 amount in the first currency;
6 accessing a stored plurality of exchange rates for the first currency with
7 respect to the second currency, each exchange rate corre-
8 sponding to a time period;
9 selecting one of the stored exchange rates responsive to the date of the
10 financial transaction and to the time periods of the stored
11 exchange rates; and
12 applying the selected exchange rate to the received financial transaction,
13 to derive a converted transaction amount in the second
14 currency.

1 2. The method of claim 1, wherein each time period comprises one se-
2 lected from the group consisting of:
3 a date; and
4 a range of dates.

1 3. The method of claim 1, further comprising:
2 storing the received financial transaction including the date, the
3 transaction amount, and the selected exchange rate.

1 4. The method of claim 1, further comprising:
2 receiving input overriding the selected exchange rate, the input com-
3 prising a second exchange rate.

1 5. The method of claim 4, further comprising:
2 storing, in the stored plurality of exchange rates, the second exchange
3 rate and a corresponding time period for the second exchange
4 rate.

1 6. The method of claim 1, wherein the financial transaction is a transfer
2 between accounts.

1 7. The method of claim 1, wherein the financial transaction is selected
2 from the group consisting of an investment purchase and an investment sale.

1 8. The method of claim 1, further comprising:
2 generating a report including the converted transaction amount; and
3 outputting the generated report.

1 9. The method of claim 8, wherein the report is selected from the group
2 consisting of:
3 a capital gains report;
4 a transaction report; and
5 an investment report.

1 10. In a computer-implemented system for managing financial trans-
2 actions, a method for applying exchange rates, comprising:
3 receiving a plurality of financial transactions, each financial transaction
4 including a date and a transaction amount in a first currency;
5 for each of at least a subset of the received financial transactions:
6 obtaining an exchange rate;
7 applying the obtained exchange rate to the transaction to de-
8 rive a transaction amount in a second currency;
9 storing the derived transaction amount in the second currency;
10 and
11 storing the obtained exchange rate in an exchange rate table.

1 11. The method of claim 10, wherein at least one financial transaction is a
2 transfer between accounts.

1 12. The method of claim 10, wherein at least one financial transaction is
2 selected from the group consisting of an investment purchase and an investment
3 sale.

1 13. The method of claim 10, further comprising:
2 generating a report including the derived transaction amounts in the
3 second currency.

1 14. The method of claim 13, wherein the report is selected from the
2 group consisting of:
3 a capital gains report;

a transaction report; and
an investment report.

15. A computer-implemented method for generating a financial report including at least two transactions, comprising:
retrieving a first transaction including a first date, a first transaction amount in a first currency, and a first exchange rate for the first currency, responsive to the first date;
retrieving a second transaction including a second date, a second transaction amount in a second currency, and a second exchange rate for the second currency, responsive to the second date;
applying the first exchange rate to the first transaction to obtain a first converted amount in a home currency;
applying the second exchange rate to the second transaction to obtain a second converted amount in the home currency; and
outputting a report including the converted amounts in the home currency.

16. The computer-implemented method of claim 15, wherein the first currency is the same as the second currency.

17. The computer-implemented method of claim 15, wherein each of the steps of obtaining a first exchange rate and obtaining a second exchange rate comprises retrieving an exchange rate from an exchange rate history table responsive to the date of the transaction.

1 18. The computer-implemented method of claim 15, wherein the report
2 is selected from the group consisting of:

3 a capital gains report;
4 a transaction report; and
5 an investment report.

1 19. A software product for managing financial transactions, comprising:
2 an exchange rate table for storing a plurality of exchange rates for a
3 currency, each exchange rate corresponding to a time period;
4 and
5 a user interface comprising a screen for displaying historical exchange
6 rate information, the information comprising a plurality of ex-
7 change rates obtained from the exchange rate table.

1 20. The software product of claim 19, wherein the time period comprises
2 one of:
3 a date; and
4 a range of dates.

1 21. The software product of claim 19, further comprising:
2 a code module for applying an exchange rate from the exchange rate
3 table to a transaction having a date, responsive to the date of
4 the transaction and the time period of the exchange rate.

22. In a computer-implemented system for managing financial transactions, a user interface for applying exchange rates to financial transactions, comprising:
a first user interface element for entering a financial transaction including a date; and
a second user interface element for entering an exchange rate for the financial transaction.

23. The user interface of claim 22, wherein:
the second user interface element displays, as a default value, an exchange rate from a stored plurality of exchange rates, responsive to the date of the financial transaction, each exchange rate in the stored plurality corresponding to a time period.

24. A computer-implemented system for applying multiple exchange rates, comprising:
a list of currencies;
for each currency, a list of exchange rates, each exchange rate corresponding to a time period;
a transaction register, for storing transaction records, each of at least a subset of the transaction records including an exchange rate;
and
a transaction input screen for entering transactions, each transaction having a date, and for obtaining and displaying an exchange

11 rate from the list of exchange rates according to a date of a
12 transaction, for storage in the transaction register.

1 25. The computer-implemented system of claim 24, further comprising:
2 a report generator, coupled to the transaction register, for generating a
3 report including at least one transaction record, the report
4 applying the exchange rate of the transaction record.

1 26. A system for applying multiple exchange rates, comprising:
2 an exchange rate storage device, for storing a plurality of exchange rates
3 for converting a first currency to a second currency, each
4 exchange rate corresponding to a time period;
5 a transaction storage device, for storing at least one financial transaction
6 in the first currency, including a date; and
7 a transaction display, coupled to the transaction storage device and to the
8 exchange rate storage device, for applying one of the stored
9 exchange rates to at least one stored financial transaction
10 according to the date of the financial transaction and the time
11 period of the exchange rate to obtain at least one value in the
12 second currency, and for displaying the at least one value.

1 27. The system of claim 26, wherein the transaction storage device stores
2 the financial transaction including the applied exchange rate.

1 28. The system of claim 26, further comprising:

2 a report generator, coupled to the transaction storage device, for gen-
3 erating a report including the financial transaction in the
4 second currency.

1 29. A system for applying an exchange rate to convert a transaction from
2 a first currency to a second currency, comprising:

3 an input device, for receiving at least one financial transaction, the fi-
4 nancial transaction including a date and a transaction amount
5 in a first currency;

6 an exchange rate retrieval device, for obtaining an exchange rate for the
7 first currency with respect to the second currency, for the
8 received financial transaction, and for applying the exchange
9 rate to convert the transaction amount to the second currency;
10 and

11 a transaction storage device, for storing the received at least one financial
12 transaction including the date and at least one selected from
13 the group consisting of the obtained exchange rate and the
14 converted transaction amount.

1 30. The system of claim 29, further comprising:
2 an exchange rate table, coupled to the exchange rate retrieval device, for
3 storing the obtained exchange rate and the date.

1 31. The system of claim 29, further comprising:
2 a report generator, coupled to the transaction storage device, for gen-
3 erating a report including the financial transaction.

1 32. A system for generating a financial report, including at least two
2 transactions, comprising:
3 an exchange rate application device, for obtaining a first exchange rate
4 for a first transaction, obtaining a second exchange rate for a
5 second transaction, applying the first exchange rate to the first
6 transaction to obtain a first converted amount, and applying
7 the second exchange rate to the second transaction to obtain a
8 second converted amount; and
9 a report generation module, coupled to the exchange rate application
10 device, for developing and formatting a report including the
11 converted amounts.

1 33. The system of claim 32, further comprising:
2 a transaction storage device, for storing at least two financial transac-
3 tions, and an associated exchange rate for each financial
4 transaction;

5 wherein the exchange rate application device obtains the first exchange
6 rate and the second exchange rate by retrieving an exchange rate from a stored
7 transaction.

1 34. The system of claim 32, further comprising:
2 an exchange rate history table, for storing a plurality of exchange rates
3 for a currency;
4 wherein each transaction has a date, and wherein the exchange rate
5 application device obtains the first exchange rate and the

6 second exchange rate by retrieving an exchange rate from the
7 exchange rate history table according to the date of the trans-
8 action.

1 35. A computer program product comprising a computer-usable
2 medium having computer-readable code embodied therein for applying an
3 exchange rate to convert a transaction from a first currency to a second currency
4 in a financial transaction management system, comprising:

5 computer-readable program code devices configured to cause a computer
6 to receive a financial transaction, including a date and a
7 transaction amount in the first currency;

8 computer-readable program code devices configured to cause a computer
9 to access a stored plurality of exchange rates for the first
10 currency with respect to the second currency, each exchange
11 rate corresponding to a time period;

12 computer-readable program code devices configured to cause a computer
13 to select one of the stored exchange rates responsive to the date
14 of the financial transaction and to the time periods of the stored
15 exchange rates; and

16 computer-readable program code devices configured to cause a computer
17 to apply the selected exchange rate to the received financial
18 transaction, to derive a converted transaction amount in the
19 second currency.

1 36. The computer program product of claim 35, wherein each time pe-
2 riod comprises one selected from the group consisting of:

3 a date; and
4 a range of dates.

1 37. The computer program product of claim 35, further comprising:
2 computer-readable program code devices configured to cause a computer
3 to store the received financial transaction including the date,
4 the transaction amount, and the selected exchange rate.

1 38. The computer program product of claim 35, further comprising:
2 computer-readable program code devices configured to cause a computer
3 to receive input overriding the applied exchange rate, the input
4 comprising a second exchange rate.

1 39. The computer program product of claim 38, further comprising:
2 computer-readable program code devices configured to cause a computer
3 to store the second exchange rate and a corresponding time
4 period in the stored plurality of exchange rates.

1 40. The computer program product of claim 35, wherein the financial
2 transaction is a transfer between accounts.

1 41. The computer program product of claim 35, wherein the financial
2 transaction is selected from the group consisting of an investment purchase and
3 an investment sale.

1 42. The computer program product of claim 35, further comprising:

2 computer-readable program code devices configured to cause a computer
3 to generate a report including the converted transaction
4 amount; and
5 computer-readable program code devices configured to cause a computer
6 to output the generated report.

1 43. The method of claim 42, wherein the report is selected from the
2 group consisting of:
3 a capital gains report;
4 a transaction report; and
5 an investment report.

1 44. A computer program product comprising a computer-usable
2 medium having computer-readable code embodied therein for applying
3 multiple exchange rates in a financial transaction management system,
4 comprising:
5 computer-readable program code devices configured to cause a computer
6 to receive a plurality of financial transactions, each financial
7 transaction including a date and a transaction amount in a first
8 currency; and
9 computer-readable program code devices configured to cause a computer
10 to, for each of at least a subset of the received financial
11 transactions:
12 obtain an exchange rate;
13 apply the obtained exchange rate to the transaction to derive a
14 transaction amount in a second currency;

store the derived transaction amount in the second currency;

and

store the obtained exchange rate in an exchange rate table.

45. The computer program product of claim 44, wherein at least one financial transaction is a transfer between accounts.

46. The computer program product of claim 44, wherein the financial transaction is selected from the group consisting of an investment purchase and an investment sale.

47. The computer program product of claim 44, further comprising:
computer-readable program code devices configured to cause a computer
to generate a report including the derived transaction amounts
in the second currency.

48. The method of claim 47, wherein the report is selected from the group consisting of:

a capital gains report;
a transaction report; and
an investment report.

49. A computer program product comprising a computer-usable medium having computer-readable code embodied therein for generating a financial report including at least two transactions, comprising:

computer-readable program code devices configured to cause a computer to retrieve a first transaction including a first date, a first

6 transaction amount in a first currency, and a first exchange rate
7 for the first currency, responsive to the first date;
8 computer-readable program code devices configured to cause a computer
9 to retrieve a second transaction including a second date, a
10 second transaction amount in a second currency, and a second
11 exchange rate for the second currency, responsive to the
12 second date;
13 computer-readable program code devices configured to cause a computer
14 to apply the first exchange rate to the first transaction to obtain
15 a first converted amount in a home currency;
16 computer-readable program code devices configured to cause a computer
17 to apply the second exchange rate to the second transaction to
18 obtain a second converted amount in the home currency; and
19 computer-readable program code devices configured to cause a computer
20 to output a report including the converted amounts in the
21 home currency.

1 50. The computer program product of claim 49, wherein the first cur-
2 rency is the same as the second currency.

1 51. The computer program product of claim 49, wherein each transaction
2 has a date, and wherein each of the computer-readable program code devices
3 configured to cause a computer to obtain a first exchange rate and a second
4 exchange rate comprises computer-readable program code devices configured
5 to cause a computer to retrieve an exchange rate from an exchange rate history
6 table responsive to the date of the transaction.

1 52. The computer-implemented computer program product of claim 49,
2 wherein the report is selected from the group consisting of:

- 3 a capital gains report;
4 a transaction report; and
5 an investment report.

1 53. A computer program product comprising a computer-usable
2 medium having computer-readable code embodied therein for managing fi-
3 nancial transactions, comprising:

4 computer-readable program code devices configured to cause a computer
5 to generate an exchange rate table for storing a plurality of
6 exchange rates for a currency, each exchange rate corre-
7 sponding to a time period; and

8 computer-readable program code devices configured to cause a computer
9 to present a user interface comprising a screen for displaying
10 historical exchange rate information, the information
11 comprising a plurality of exchange rates obtained from the
12 exchange rate table.

1 54. The software product of claim 53, wherein the time period comprises
2 one of:

- 3 a date; and
4 a range of dates.

1 55. The computer program product of claim 53, further comprising:

2 computer-readable program code devices configured to cause a computer
3 to apply an exchange rate from the exchange rate table to a
4 transaction having a date, responsive to the date of the
5 transaction and the time period of the exchange rate.

1 56. A computer program product comprising a computer-usable
2 medium having computer-readable code embodied therein for presenting a user
3 interface for applying exchange rates to financial transactions, comprising:

4 computer-readable program code devices configured to cause a computer
5 to present a first user interface element for entering a financial
6 transaction including a date; and

7 computer-readable program code devices configured to cause a computer
8 to present a second user interface element for entering an
9 exchange rate for the financial transaction.

1 57. The computer program product of claim 56, wherein the computer-
2 readable program code devices configured to cause a computer to present a
3 second user interface element comprise:

4 computer-readable program code devices configured to cause a computer
5 to display, as a default value, an exchange rate from a stored
6 plurality of exchange rates, responsive to the date of the
7 financial transaction, each exchange rate in the stored plurality
8 corresponding to a time period.

TRACKING MULTIPLE EXCHANGE RATES

ABSTRACT OF THE DISCLOSURE

A system, method, computer program product, and user interface for tracking multiple exchange rates for transactions in a financial software application. Historical exchange rates are applied to transactions involving currency conversions, and accurate reports are generated by retrieving appropriate historical rates according to the dates of the transactions. Exchange rates are stored by associating them with individual transactions or with date ranges. Generated reports accurately reflect historical exchange rate information where applicable.

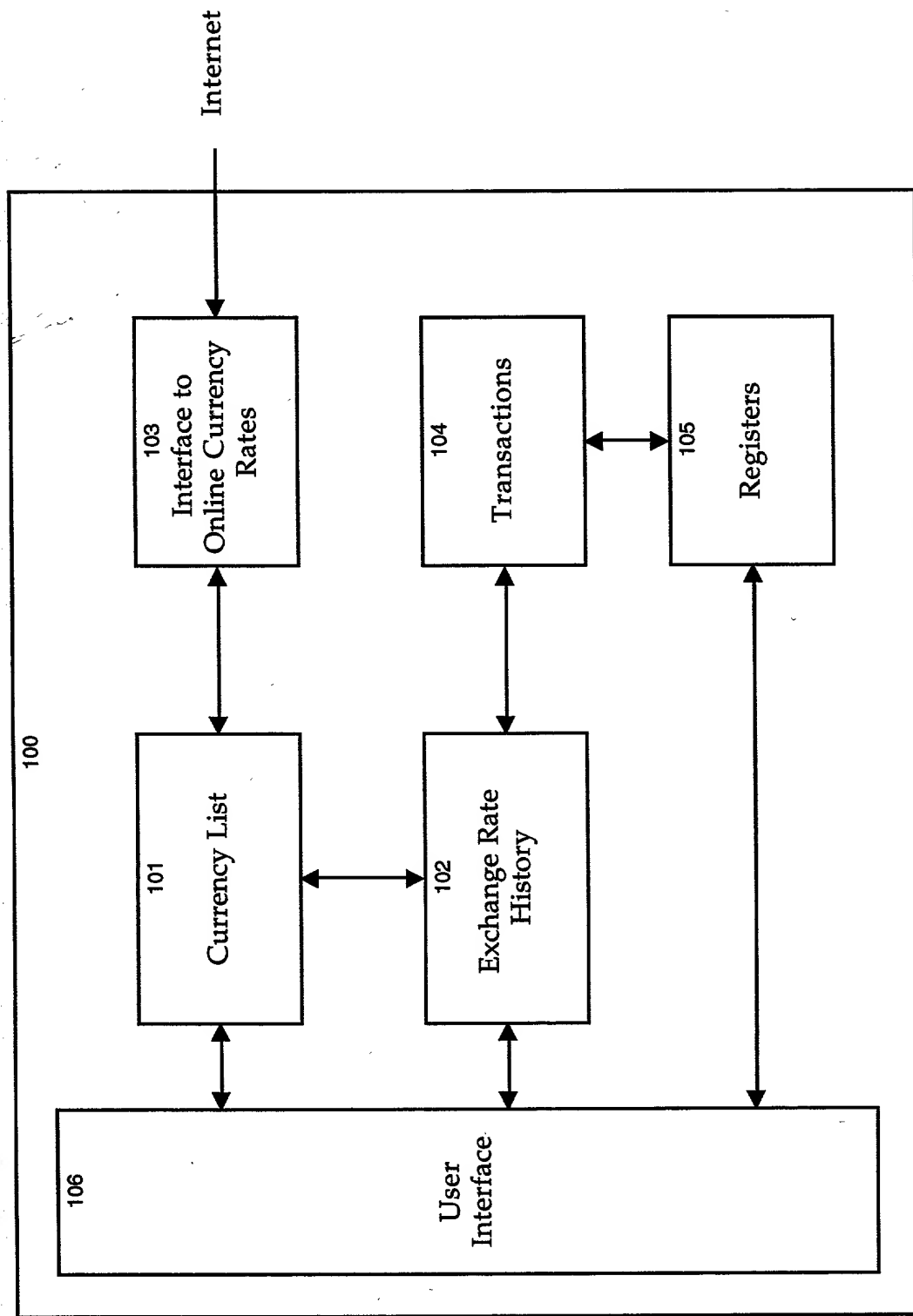
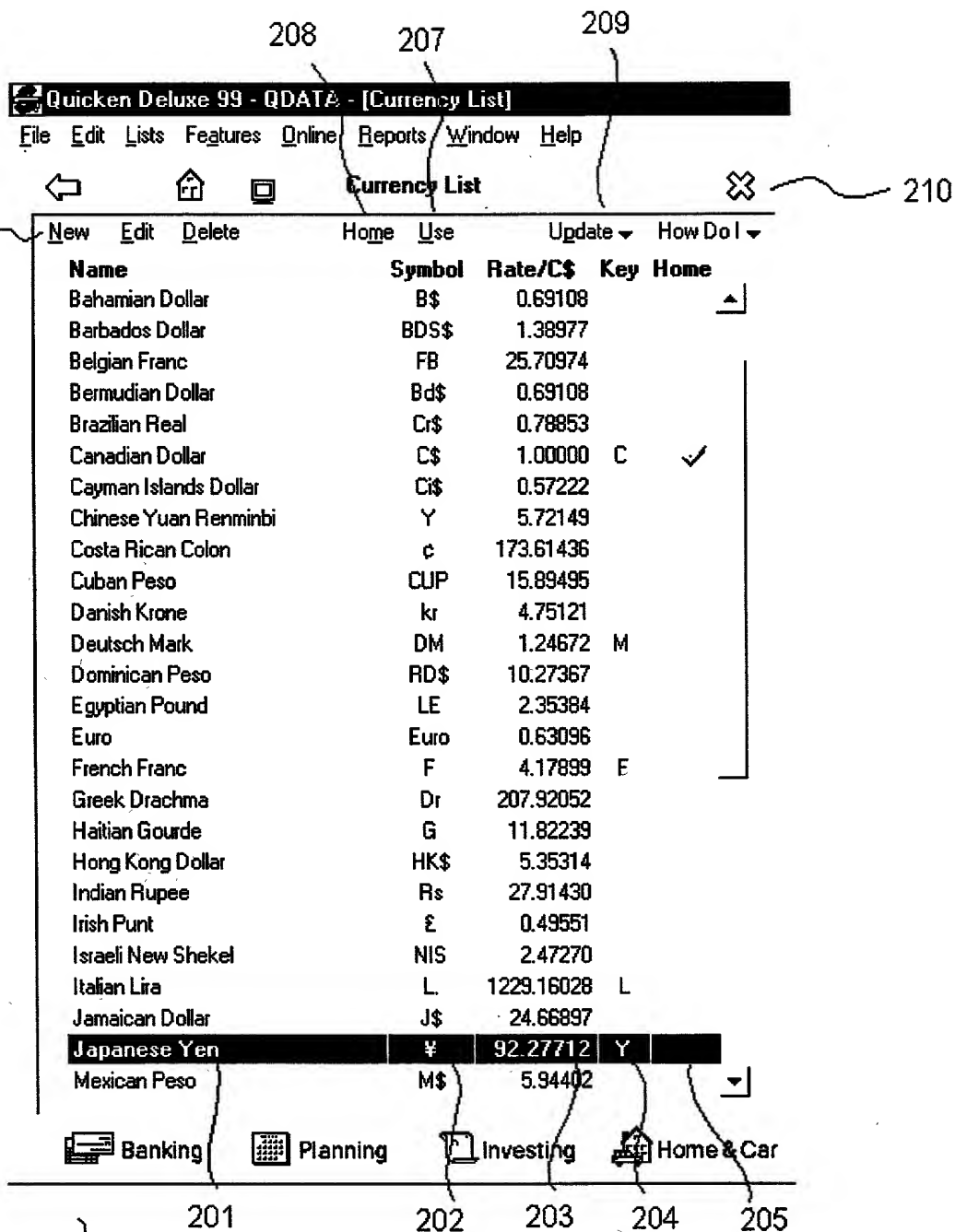


FIG. 1



101

FIG. 2

301

Edit Currency

Currency Name: Japanese Yen

Currency Symbol: ¥

Currency Code: JPY

Shortcut letter (optional): Y

Exchange rate as of 5/15/89:

¥ per US: 94.0000

US per ¥: 0.01064

OK Cancel Help

307

300

308

309

302

303

304

305

306

FIG. 3

Exchange Rate: \$ per C\$	
New	Old
06/15/99	0.68275
05/15/99	0.70000
04/15/99	0.75000
03/15/99	0.80000

—102—

401

Fig. 4

500

New exchange currency rate for: U.S. Dollar

Date	<input type="text" value="8/15/99"/>	<input checked="" type="checkbox"/>	OK
Rate	<input type="text" value="0.00000"/>	<input type="checkbox"/>	Cancel

504

505

502

FIG. 5

600

Edit Bank Account

Account Information

Account Name: Sweden Chequing 601

Description: 602

Currency: Swedish Krona 603

Online Information

☐ Enable Online Account Access

Optional Information

Additional Information: Info Tax Info Tax

Cancel Help Done

FIG. 6

Foreign Currency Transfer

From Chequing 701

Transfer \$100.00

To US Chequing 702

\$70.00

0.70000 705

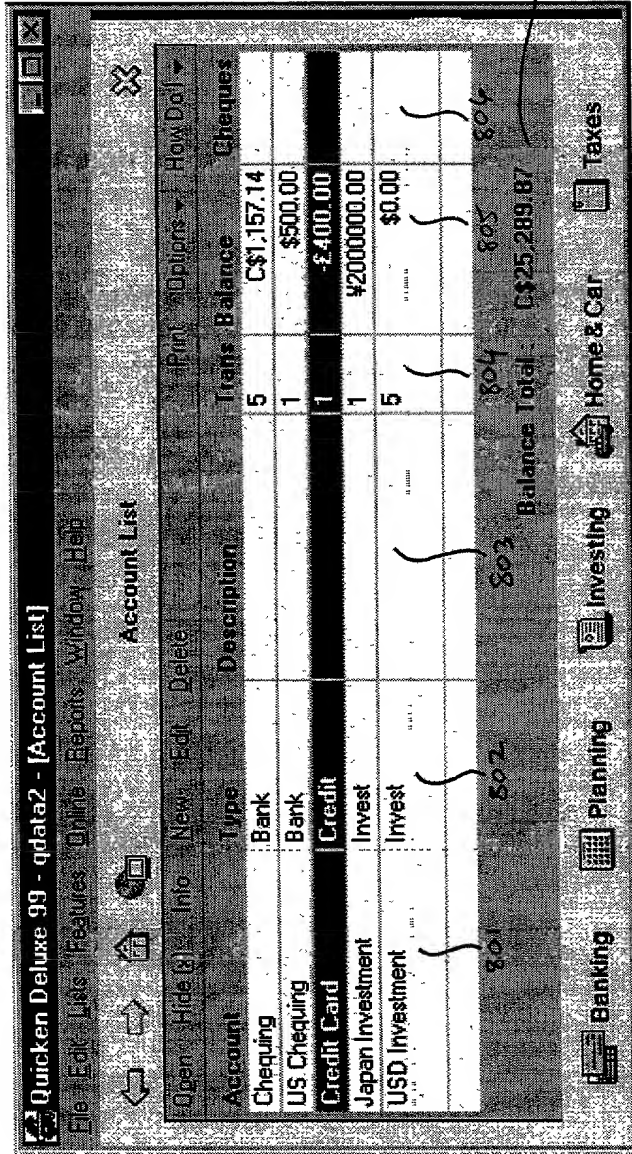
OK 703

Cancel 704

700

FIG. 7

800



807

FIG. 8

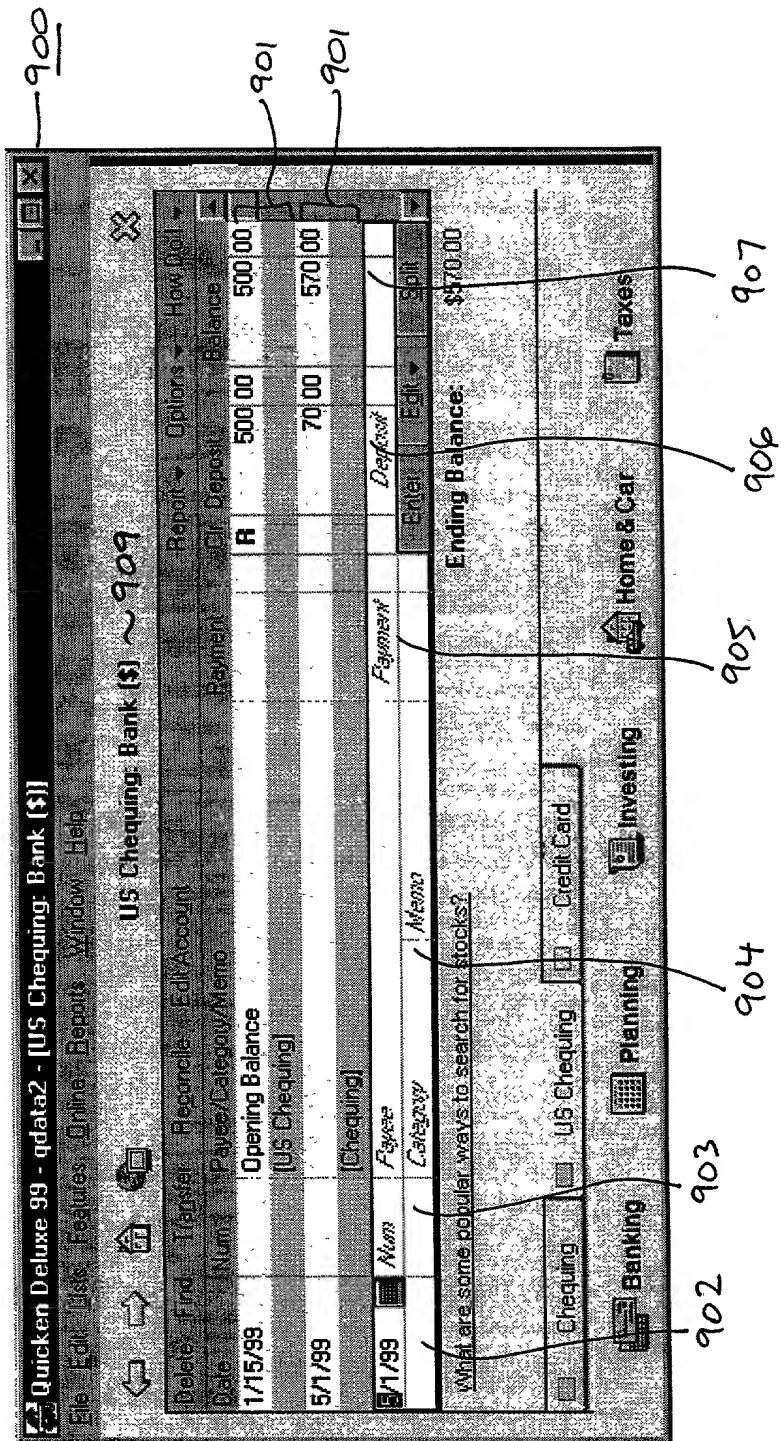


FIG. 9

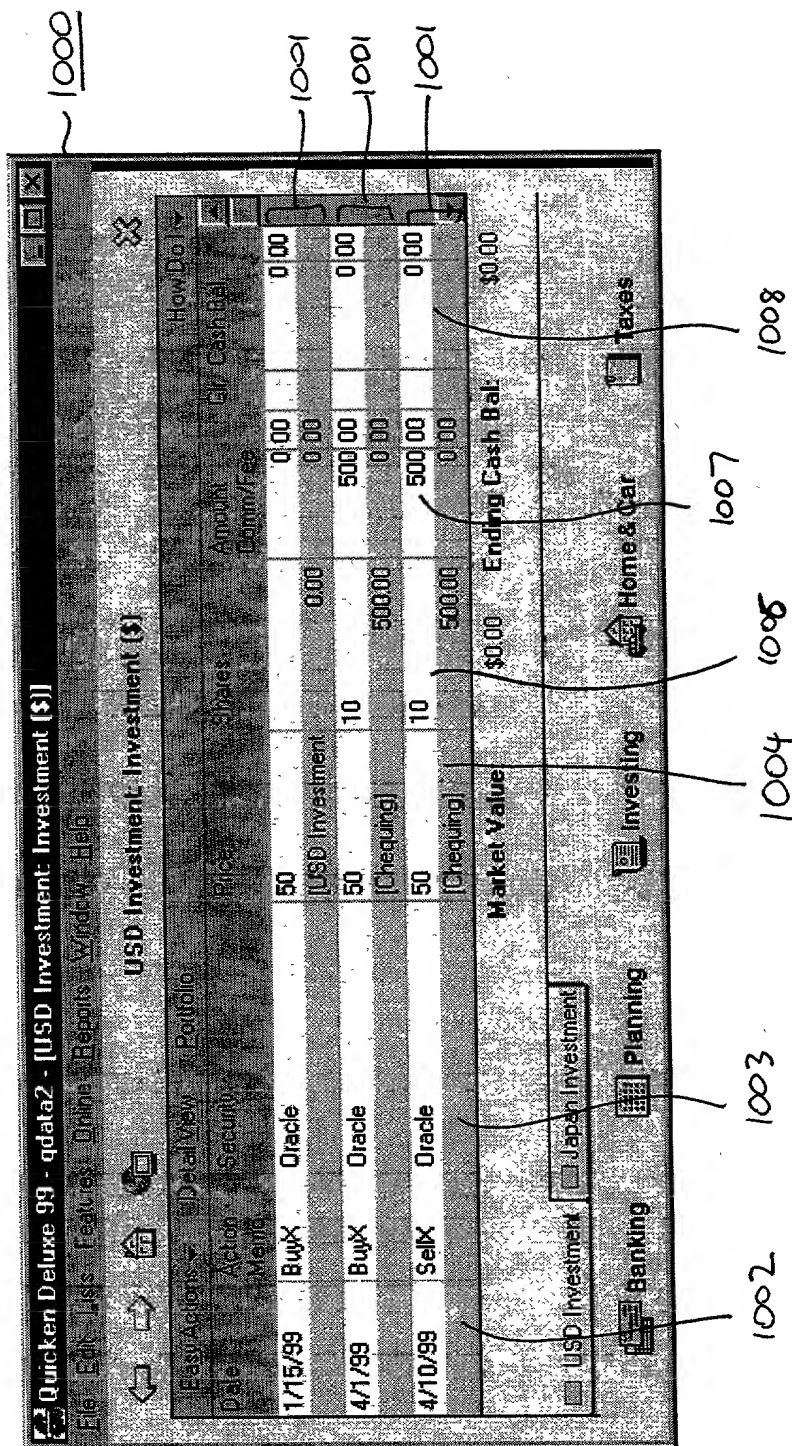


FIG. 10

1103

Buy/Add Shares

EasyStep

Summary

Date

8/15/99

Security

Oracle

Account

USD Investment

Money from Quicken account?

☐ Yes from my cash balance
 ☒ Yes from

Chequing

☐ No deposit shares only

Transaction

of Shares

10

Price / Share

50

Commission

0.00

Total Cost

500.00

Lot#

Currency exchange rate

☒ Exchange rate on 8/15/99=1.46467
 ☐ Set rate for this transaction

000.000

Cancel

Help

Back

Done

1100

1105

1104

1102

1101

FIG. 11

Set Up Security

Please provide some information about this security

Name

Symbol

Look Up

Type

Stock

Currency

Irish Punt

1201

Goal

(optional)

Asset Class

☒ Single

☐ Mixture

Specify Mfr

High End Price

(optional)

Low End Price

(optional)

☐ Show in Watch List

✓ OK

✗ Cancel

ⓘ Help

Other Info

-1200

FIG. 12

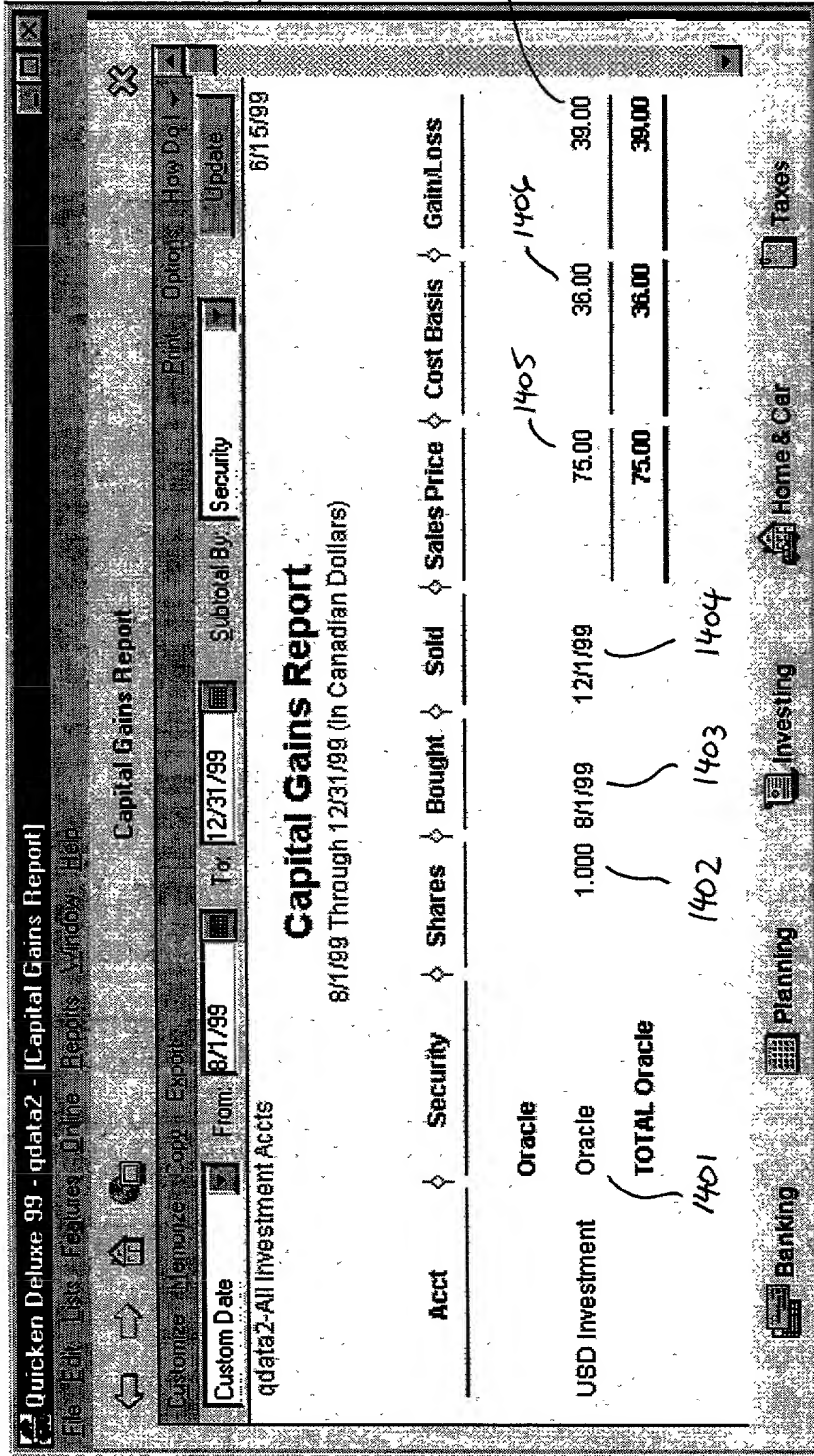


FIG. 14

Customize Capital Gains Report

Display Accounts Included Advanced

Report Dates: Year to date From: 1/1/99 to: 6/15/99

Report Layout: Title: Capital Gains Report

Headings: Subtotal By: Security

Show: ☒ Cents in Amounts

Transaction Exchange Rate: ☐ Canadian Dollar

1501

1502

Show Columns:

Column
<input checked="" type="checkbox"/> Acct
<input checked="" type="checkbox"/> Security
<input checked="" type="checkbox"/> Shares
<input checked="" type="checkbox"/> Bought
<input checked="" type="checkbox"/> Sold
<input checked="" type="checkbox"/> Sales Price
<input checked="" type="checkbox"/> Cost Basis

Repeat Data

Create Cancel Help

1500

FIG. 15

0010/PTO Rev. 6/95 U.S. Department of Commerce Patent and Trademark Office DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION <input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing	Attorney Docket Number	3894
	First Named Inventor	Andrew D. Holmes
	<i>COMPLETE IF KNOWN</i>	
	Application Number	not yet known
	Filing Date	not yet known
	Group Art Unit	not yet known
	Examiner Name	not yet known

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TRACKING MULTIPLE EXCHANGE RATES

the specification of which

(Title of the Invention)

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) [] as United States Application Number or PCT International Application Number [] and was amended on (MM/DD/YYYY) [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations. § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 (a)-(d) or § 385(b) of any foreign application(s) for patent or inventor's certificate, or § 365 (a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority	Certified Copy Attached?	
			Not Claimed	YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority sheet attached hereto:

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental sheet attached hereto.

DECLARATION

Page 2

I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority sheet attached hereto.

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Name	Registration Number	Name	Registration Number
Amir H. Raubvogel	37,070	Robert R. Sachs	42,120
Kirk A. Gottlieb	42,596	Laura A. Majerus	33,417
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name	Andrew	Middle Initial	D.	Family Name	Holmes	Suffix e.g. Jr.	
------------	--------	----------------	----	-------------	--------	-----------------	--

Inventor's Signature		Date	
----------------------	--	------	--

Residence: City	Edmonton	Province	Alberta	Country	Canada	Citizenship	Canadian
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Mailing Address 10514 - 127 Street

Mailing Address

City	Edmonton	Province	Alberta	Postal Code	T5N 1V9	Country	Canada
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☒ Additional inventors are being named on supplemental sheets attached hereto

DECLARATION				ADDITIONAL INVENTOR(S) Supplemental Sheet			
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
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Mailing Address							
City	Toronto	Province	Ontario	Postal Code	M9B 4J1	Country	Canada

Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
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Inventor's Signature					Date		
Residence: City	Palo Alto	State	CA	Country	USA	Citizenship	USA
Mailing Address	707 Middlefield Road						
Mailing Address							
City	Palo Alto	State	CA	Zip	94301	Country	USA

Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
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Inventor's Signature					Date		
Residence: City	Los Altos	State	CA	Country	CA	Citizenship	USA
Mailing Address							
Mailing Address							
City	Los Altos	State	CA	Zip		Country	USA

Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
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Inventor's Signature					Date		
Residence: City	Beaumont	Province	Alberta	Country	Canada	Citizenship	Canadian
Mailing Address	5118, 56 Street						
Mailing Address							
City	Beaumont	Province	Alberta	Postal Code	T4X 1E2	Country	Canada

☒ Additional inventors are being named on a supplemental sheet attached hereto

Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name	Raymond	Middle Initial	P.	Family Name	Trounday	Suffix e.g. Jr.	
Inventor's Signature						Date	
Residence: City	Daly City	State	CA	Country	USA	Citizenship	USA
Mailing Address	156 Irvington Street						
Mailing Address							
City	Daly City	State	CA	Zip	94014	Country	USA
<input type="checkbox"/> Additional inventors are being named on a supplemental sheet attached hereto							